

10/074,765

Patent

Attorney Docket No.: PD-201157  
Customer No.: 20991**AMENDMENT AND PRESENTATION OF CLAIMS**

Please replace all prior claims in the present application with the following claims, in which claims 1, 17 and 22 are currently amended.

1. (Currently Amended) A method of compressing video, comprising:  
grouping video frames that are only between consecutive I-frames into a video data set;  
splitting the video data set into a plurality of homogeneous files; and  
individually compressing each of the homogeneous files.
2. (Original) A method according to claim 1, wherein the video frames include P-frames and B-frames.
3. (Original) A method according to claim 1, wherein said splitting includes storing mode information of the video data set and motion components in separate files.
4. (Original) A method according to claim 1, wherein said splitting includes storing horizontal components of the video data set and vertical components of the video data set in separate files.
5. (Original) A method according to claim 1, wherein said splitting includes storing B-frame components of the video data set and P-frame components of the video data set in separate files.
6. (Original) A method according to claim 1, wherein said splitting includes storing mode 3 B-frame components of the video data set and mode 0, 1, and 2 B-frame components of the video data set in separate files.
7. (Original) A method according to claim 1, wherein said splitting includes storing different color components of the video data set in different files.

10/074,765

Patent

Attorney Docket No.: PD-201157  
Customer No.: 20991

8. (Original) A method according to claim 1, further comprising mapping negative values in one of the homogeneous files into positive values.

9. (Original) A method according to claim 1, wherein said compressing includes applying a grammar-based code.

10. (Original) A method according to claim 9, wherein said applying includes employing a YK algorithm.

11. (Original) A method according to claim 1, wherein said compressing includes bit plane encoding quantized transform coefficients obtained from the video data set.

12. (Original) A method according to claim 11, wherein said compressing includes performing a run-length encoding of bit planed encoded coefficients.

13. (Original) A method according to claim 1, wherein said homogeneous files have similar statistical properties.

14. (Original) A method according to claim 1, further comprising multiplexing the separate files into a bit stream.

15. (Original) A method according to claim 14, further comprising prefixing a corresponding header to each of the separate files, said header indicating a size of a corresponding separate file.

16. (Original) A computer-readable medium bearing instructions for compressing video, said instructions being arranged, upon execution by one or more processors, to perform the steps of the methods as in any of claims 1-15.

10/074,765

Patent

Attorney Docket No.: PD-201157  
Customer No.: 20991

17. (Currently Amended) A video compression system, comprising:

means for grouping video frames that are only between consecutive I-frames into a video data set;

means for splitting the video data set into a plurality of homogeneous files; and

means for individually compressing each of the homogeneous files.

18. (Original) A video compression system according to claim 17, further comprising:

means for multiplexing the individually compressed files into a bit stream.

19. (Previously Presented) A method of compressing video, comprising:

grouping video frames that are only between two consecutive I-frames into a video data set;

splitting the video data set into a plurality of individual data sequences; and

individually compressing each of the individual data sequences.

20. (Previously Presented) A method according to claim 19, wherein at least one of the individual data sequences contains information from each of the video frames that are only between the two consecutive I-frames.

21. (Previously Presented) A method of compressing video, comprising:

splitting the video data set consisting of non-Intra video frames into a plurality of data sequences; and

individually compressing each of the files, wherein at least one of the data sequences contains information from each of the non-Intra video frames.

22. (Currently Amended) A method of compressing a video signal, comprising:

grouping video frames of the video signal that are only between consecutive I-frames into a video data set;

splitting the video data set into a plurality of individual data sequences; and

individually compressing each of the individual data sequences.